

CONFIDENTIAL

P-351

11 December 1961

MEMORANDUM FOR: THE RECORD

SEE REVERSE FOR DECLASSIFICATION ACTION

SUBJECT :

[REDACTED]

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1. Time and Place of Meeting: The meeting was held on 28 November

a [REDACTED].

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2. Attendance:

[REDACTED]

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3. Purpose of Visit: Discuss the projects at [REDACTED], P-351 - Secure Room Jammer; P-368 - Sonics Investigation and 087 - Special Filters.

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4. Discussion:

[REDACTED] stated that they now have received all the parts for completion of the 25 special filters. [REDACTED] had trouble in obtaining certain types of capacitors, but have now obtained them. [REDACTED] stated that production would be completed on schedule.

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[REDACTED] stated that the remaining 2 units of the secure room noise jammer were finished. A separate mounting ring has been included. This mounting ring can be glued or screwed to a wall. The speaker then couples onto the ring.

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[REDACTED] was asked if it was possible to simplify the unit and build it for less cost. The cost was the only objection that the Department of State had. [REDACTED] stated that they could simplify the unit and reduce the cost, particularly if its magnetic capability was not required. [REDACTED] stated that at this time they could not say what the cost estimate for a unit with only noise jamming capability would be.

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The sonics investigation program was discussed with [REDACTED] was informed that the program would consist of five phases, most of them interrelated. The main task would be the broad band transducer investigation. [REDACTED] was again informed that we were interested in obtaining information in the subsonic, ultrasonic, and magnetic ranges and were not interested in radiation from machines or types of signals, etc. [REDACTED] was informed that they were not to do any work on machines per se.

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Other phases would be to continue work on communication through pipes or wires in the ultrasonic region; to determine just what the mode of transmission is; gathering of airborne ultrasonic data through the various seasons of the year; and the building of an ultrasonic detector with a

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CONFIDENTIAL
- 2 -

Memorandum for THE RECORD dated 11 December 1961
Subj: [REDACTED]

25X1

bandwidth up to 100KC.

[REDACTED] demonstrated the one way ultrasonic pipe communicator and the transceiver pipe communicator. Both units were attached to an air line. The distance communicated was over 100 feet and the pipe size varied from 1 1/2" to 3/4". The units worked through at least twenty T's and several reducers. The transceiver unit gave marginal results intelligibility wise. Part of the time the conversation was clearly intelligible, then it would fade and be about 50% intelligible. The cause for this fluctuation was not readily apparent.

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The one way communicator worked well. The intelligibility was good and overall, the unit out performed the transceiver unit. Two microphones were used with the one way unit. Used were a MC-30 microphone and a carbon microphone. Better results was obtained with the carbon microphone than with the MC-30. [REDACTED] made the transducer which fastens onto the pipe out of high temperature ceramic material. A mosaic pattern was used with the pieces mounted around the outside edge in the following manner:

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[REDACTED] found that the transmitter end such a configuration gave the best results. On the receiver end, a plain end mounted ceramic transducers gave the best results. Both of the units are essentially bread-board units, subject to refinement. [REDACTED] is now in the process of running a series of tests on the units to determine what their capabilities are

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[REDACTED] has not yet completed all the required information for the contact microphone patent, but stated that he would have it done shortly.

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[REDACTED] was informed that their proposal on the car tracking problem did not adequately cover what goes into the car and how it would be attached. [REDACTED] admitted this and stated that the proposal was merely a feasibility study on one aspect of the problem, a place to start so to speak. [REDACTED] stated that they would shortly submit additional information on the problem.

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Distribution:

Orig. - P-368
1 - P-351
1 - AWS
1 - Trip Report
1 - Chrono

TSD/APB/AWS:ms (dated 11 December 1961)

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